

ABSTRACT OF THE DISCLOSURE

Handover procedures take into account adaptive antennas that employ narrow, directional antenna beams. A connection is established with a mobile station by way of an originating radio base station. Downlink signal quality measurements associated with cell-wide transmissions from neighboring base stations are detected by the mobile station and reported to the radio network. The handover target base station is determined based upon those signal quality measurements. A desired antenna beam at the target base station is also determined for communicating with the mobile station based on uplink measurements made by the target base station. A handover connection is established between the target base station and the mobile station using the desired antenna beam at the target base station.